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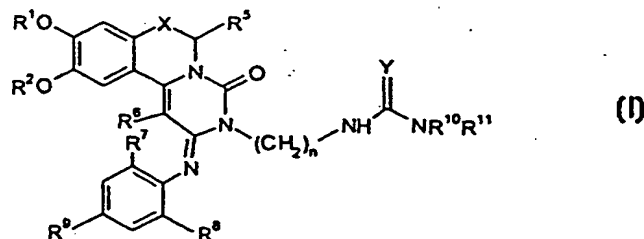
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(54) Title: DERIVATIVES OF PYRIMIDO[6,1-a]ISOQUINOLIN-4-ONE



(57) Abstract

Compounds of general formula (I) wherein each of R¹ and R² independently represents a C₁₋₆ alkyl or C₂₋₇ acyl group; R⁵ represents a hydrogen atom or a C₁₋₃ alkyl, C₂₋₃ alkenyl or C₂₋₃ alkynyl group; R⁶ represents a hydrogen atom or a C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, amino, C₁₋₆ alkylamino, di(C₁₋₆) alkylamino or C₂₋₇ acylamino group; each of R⁷ and R⁸ independently represents a hydrogen or halogen atom or a hydroxy, trifluoromethyl, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₂₋₇ acyl, C₁₋₆ alkythio, C₁₋₆ alkoxy, C₃₋₆ cycloalkyl; and R⁹ represents a hydrogen or halogen atom or a hydroxy, trifluoromethyl, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₂₋₇ acyl, C₁₋₆ alkythio, C₁₋₆ alkoxy or C₃₋₆ cycloalkyl group; X represents OCH₂ or a group CR³R⁴, wherein each of R³ and R⁴ independently represents a hydrogen atom or a C₁₋₃ alkyl group; each of R¹⁰ and R¹¹ independently represents a hydrogen atom, a C₁₋₃ alkyl, C₃₋₆ cycloalkyl or phenyl group; Y represents an oxygen atom or a group CHNO₂, NCN, NH or NNO₂, n is an integer from 2 to 4; or a salt thereof; are useful for treatment of respiratory disorders such as asthma. Compounds of the invention have a longer duration of action than the known compound trequinsin (9, 10-dimethoxy-3-methyl-2-mesitylimino-2,3,6,7-tetrahydro-4H-pyrimido[6,1-a]isoquinolin-4-one) and do not have trequinsin's very bitter taste.